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reading to 6′ in space. The power generally employed was 450, but one of 320 was often used, and occasionally for close stars 600 or 820.

"The telescope is driven by clock-work. Notwithstanding some drawbacks it is quite capable of contending with others of its own class, and in a favourable and calm state of the atmosphere its power of showing faint companions leaves nothing to be desired. The working catalogue of stars for observation was selected from Struve's great Catalogue of 1837; and contained, 1st, stars confessedly binary; 2nd, others as to which there was strong presumptive evidence of their being so; 3d, stars of which the observations by different observers gave anomalous or discordant results. As these objects were worked out, more were added from time to time from among the finer and closer of the double stars, and from those which had been wholly observed at one epoch. Some of these latter exhibit orbital motion.

"The first of the catalogues contains the results of the observations of each star made on separate nights, the second the general mean of all the sets obtained in the same year. The catalogues are followed by notes, directing attention to any particulars worthy of remark, in reference to any star, but no notes have been made to such stars as *Castor*, γ *Virginis*, &c., which have received due attention from other observers, unless the fresh evidence seemed to require it."

Apparent Right Ascensions of the Moon's Limb and of Moon-Culminating Stars, observed with the Transit Instrument of the Observatory, Washington.

(*Communicated by Lieut. M. F. Maury, U. S. N.*)

Date.	Object.	No. of Threads.	Apparent Right Ascension. Observed.	Apparent Right Ascension. Computed.
1859.			h m s	s
Jan. 12	101 Piscium	10	1 28 14·892	
	Moon's 1st Limb	15	1 45 49·826	49·95
	β Arietis	10	1 46 52·040	
	B.A.C. 607	25	1 51 47·175	
13	ι Arietis	15	1 49 39·713	
	α Arietis	15	1 59 14·583	
	θ Arietis	15	2 10 18·057	
	Moon's 1st Limb	14	2 41 6·533	6·36
15	α Tauri	15	4 27 51·662	
	τ Tauri	13	4 33 48·903	
	Moon's 1st Limb	25	4 48 59·266	59·25
17	κ Aurigæ	5	6 6 25·668	

Date.	Object.	No. of Threads.	Apparent Right Ascension. Observed.			Computed.
1859.			h	m	s	s
Jan. 17	48 Aurigæ	15	6	19	32·550	
	49 Aurigæ	15	6	26	21·439	
	Moon's 1st Limb	25	7	10	39·788	40·37
	υ Geminorum	25	7	27	16·265	
	ϰ Geminorum	15	7	35	58·262	
18	υ Geminorum	15	7	27	16·171	
	ϰ Geminorum	15	7	35	58·273	
	λ Cancri	15	8	12	11·224	
	Moon's 2d Limb	15	8	21	4·219	4·09
	η Cancri	15	8	24	35·350	
	γ Cancri	15	8	35	9·650	
19	η Cancri	25	8	24	35·345	
	γ Cancri	15	8	35	9·623	
	δ Cancri	15	8	36	42·283	
	83 Cancri	25	9	11	8·642	
	Moon's 2d Limb	25	9	23	49·105	48·76
	ν Leonis	25	9	50	40·135	
	η Leonis	25	9	59	40·571	
Feb. 10	ζ Arietis	15	3	6	48·788	
	τ′ Arietis	15	3	13	6·255	
	Moon's 1st Limb	15	3	17	41·175	41·07
	11 Tauri	15	3	32	22·348	
	η Tauri	15	3	39	7·529	
14	53 Geminorum	25	7	7	11·095	
	ι Geminorum	25	7	17	0·460	
	Moon's 1st Limb	25	7	43	14·466	14·53
	ψ^2 Cancri	5	8	1	59·905	
	χ Cancri	5	8	12	11·403	
	λ Cancri	15	8	35	9·777	
16	π^2 Cancri	25	9	7	29·047	
	83 Cancri	5	9	11	8·916	
	ξ Leonis	10	9	24	23·004	
	Moon's 1st Limb	25	9	47	59·392	59·74
	α Leonis	25	10	0	54·043	
Mar. 12	Moon's 1st Limb	15	6	9	47·027	47·02
	μ Geminorum	15	6	14	27·436	
	49 Aurigæ	15	6	26	20·932	
16	B.A.C. 3345	25	9	40	0·649	
	ν Leonis	25	9	51	40·571	
	α Leonis	25	10	0	54·071	
	Moon's 1st Limb	25	10	16	36·397	36·32
	45 Leonis	5	10	20	14·268	
	ρ Leonis	25	10	25	25·550	

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Date.	Object.	No. of Threads.	Apparent Right Ascension. Observed.			Computed.
1859.			h	m	s	s
April 9	Moon's 1st Limb	15	6	55	39·004	39·30
	ι Geminorum	15	7	16	59·644	
	υ Geminorum	15	7	27	15·542	
12	ν Leonis	15	9	50	40·339	
	Moon's 1st Limb	15	9	55	10·728	11·01
	α Leonis	15	10	0	53·860	
16	ψ Virginis	5	12	47	3·861	
	g Virginis	15	13	0	33·358	
	a Virginis	15	13	17	48·727	
	69 Virginis	15	13	19	58·843	
	Moon's 1st Limb	15	13	22	58·256	58·30
May 12	Moon's 1st Limb	15	12	12	48·099	48·14
	f Virginis	14	12	29	34·129	
	28 Virginis	13	12	34	42·768	
13	*f* Virginis	25	12	29	34·144	
	28 Virginis	25	12	34	42·735	
	Moon's 1st Limb	25	13	3	10·249	10·12
	58 Virginis	20	13	0	6·724	
	a Virginis	25	13	17	48·750	
June 9	η Virginis	15	12	12	43·725	
	Moon's 1st Limb	15	12	47	16·339	16·55
	58 Virginis	15	13	10	6·589	
	a Virginis	15	13	17	48·712	
11	86 Virginis	15	13	38	28·352	
	89 Virginis	15	13	42	15·539	
	Moon's 1st Limb	15	14	30	11·095	11·28
	20 Libræ	15	14	55	52·662	
	ι' Libræ	15	15	4	14·497	
	β' Scorpii	25	15	57	17·988	
17	h^2 Sagittarii	25	19	28	11·082	
	f Sagittarii	25	19	38	11·556	
	Moon's 2d Limb	25	20	4	50·706	50·59
	σ Capricorni	25	20	11	18·651	
	ϱ Capricorni	25	20	20	52·188	
July 9	a^2 Libræ	25	14	43	7·889	
	20 Libræ	15	14	55	52·545	
	ι Libræ	15	15	4	14·475	
	Moon's 1st Limb	25	15	7	30·455	30·59
	39 Libræ	25	15	28	31·729	
	42 Libræ	15	15	32	0·517	
	λ Libræ	15	15	45	12·597	
11	Moon's 1st Limb	25	16	59	37·512	37·52
	A' Ophiuchi	25	17	6	44·825	

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Date.	Object.	No. of Threads.	Apparent Right Ascension. Observed.	Computed.
1859.			h m s	s
July 11	θ Ophiuchi	25	17 13 25·129	
	d Ophiuchi	25	17 18 25·379	
12	θ Ophiuchi	10	17 13 25·110	
	d Ophiuchi	5	17 18 25·330	
	Moon's 1st Limb	25	17 56 22·386	22·59
	μ′ Sagittarii	25	18 5 23·944	
	δ Sagittarii	5	18 12 2·365	
	λ Sagittarii	20	18 29 20·365	

The clock-stars used are those of the *British Nautical Almanac* for the mean equinox of 1860·0.

The moon's computed place is taken from the *American Ephemeris.*

Results of Meridional Observations of Small Planets, and Phenomena of Jupiter's Satellites, observed at the Royal Observatory, Greenwich, in the month of April, 1860.

(*Communicated by the Astronomer Royal.*)

Iris ⑦.

Mean Solar Time of Observation.		Apparent R.A.	Apparent N.P.D.
	h m s	h m s	° ′ ″
1860, April 2	8 15 40·9	9 1 14·27	80 35 31·28
3	8 11 57·9	9 1 27·20	80 34 8·18
5	8 4 36·7	9 1 57·89	80 31 44·99
7	7 57 21·3	9 2 34·49	80 29 41·18

Hygeia ⑩

Mean Solar Time of Observation.		Apparent R.A.	Apparent N.P.D.
	h m s	h m s	° ′ ″
1860, April 12	9 28 30·2	10 53 41·10	88 22 2·22
17	9 7 23·4	10 52 13·57	88 8 27·89
28	8 22 52·0	10 50 56·98	87 48 46·18

Victoria ⑫.

Mean Solar Time of Observation.		Apparent R.A.	Apparent N.P.D.
	h m s	h m s	° ′ ″
1860, April 2	12 10 53·0	12 57 5·04	105 58 27·87
9	11 36 47·7	12 50 30·00	104 58 47·74
16	11 2 51·2	12 44 3·77	103 52 56·13
17	10 58 2·2	12 43 10·57	103 43 11·49
27	10 10 50·2	12 35 16·37	102 5 33·61